

PRODUCTION OF EICOSAPENTAENOIC ACID BY MICROORGANISM AND MICROORGANISM USING THEREFOR

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Abstract

PURPOSE: To produce eicosapentaenoic acid (EPA) and EPA-containing lipid useful as health foods or pharmaceuticals by fermentation process, by culturing a specific microbial strain belonging to *Vibrio* genus in a nutrient medium.

CONSTITUTION: *Vibrio splendens* SCRC-1226 (FERM P-9212) is cultured under aerobic condition in a liquid medium containing a nitrogen source consisting of one or more yeast extract, peptone, meat extract, etc., and sodium chloride or natural or artificial seawater and, if necessary, added with various kinds of saccharides as carbon sources at 5-30 deg.C, preferably 15-25 deg.C and pH 6-9, preferably pH 7-8 for 8-48hr by standing culture, shaking culture or culture under aeration and agitation. After the completion of culture, EPA-containing lipid is separated from the microbial cell by solvent extraction and the lipid is saponified to separate EPA.

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